

Bisalloy Steels BisPlate HHA Thickness 5-25 mm

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel , Carbon Steel , Low Carbon Steel

Material Notes:

A quenched and tempered steel armor plate suitable for use in both military and civil applications where light weight and resistance to ballistic projectiles is required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bisalloy-Steels-BisPlate-HHA-Thickness-5-25-mm.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	500	500	
Tensile Strength at Break	1640 MPa	238000 psi	
Tensile Strength, Yield	1400 MPa @Strain 0.200 %	203000 psi @Strain 0.200 %	
Elongation at Break	14 %	14 %	in 50 mm GL
Charpy Impact	8.00 - 16.0 J @Temperature -20.0 °C	5.90 - 11.8 ft-lb @Temperature -4.00 °F	Transverse
	10.0 - 20.0 J @Temperature -20.0 °C	7.38 - 14.8 ft-lb @Temperature -4.00 °F	Longitudinal

Component Elements Properties	Metric	English	Comments
Boron, B	0.0020 %	0.0020 %	
Carbon, C	0.32 %	0.32 %	
Chromium, Cr	1.2 %	1.2 %	
Iron, Fe	97 %	97 %	As Balance
Manganese, Mn	0.40 %	0.40 %	
Molybdenum, Mo	0.30 %	0.30 %	
Nickel, Ni	0.35 %	0.35 %	
Phosphorous, P	0.025 %	0.025 %	
Silicon, Si	0.35 %	0.35 %	
Sulfur, S	0.0050 %	0.0050 %	

Descriptive Properties	Value	Comments
CE (IIW)	0.61	
PCM	0.4	
Surface Finish	Shotblasted	

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